DORROVOL'SKIY, I.

Our practice in controlling the maintenance of credit. Den. i kred. 20 no.8:63-64 Ag '62. (MIRA 15:9)

1. Starshiy kreditnyy inspektor Manturovskogo otdeleniya Gosbanka.

(Manturovo (Kostroma Province)—Credit)

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620019-8

DOBROVOL'SKIY, I. A.

Gas resistance of tree and brushwood species. Les. khoz. 5, No 4, 1952.

K

Country: USSR

Category: Forestry. Forest Cultures.

Abs Jour: RZhBiol., No 11, 1958, No 48799

Author : Dobrovol'skiy, I.A.

Inst : Krivoi Rog State Pedagogical Institute.

Title : Green Plantings at Krivoi Rog

Orig Pub: Nauk. zap. Kinvoriz'k derzh ped. in-t, 1957, vyp, 2,

117-130

Abstract: This is a description of a study made of the dendro-

flora of Krivoi Rog. The article gives the composition according to the species of the plantings in parks, street plantings, plantings in squares and other plantings (115 species of trees and shrubs are listed). The most durable and valuable species

Card : 1/2

к-68

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620019-8

Country: USSR

K

Category: Forestry. Forest Cultures.

Abs Jour: RZhBiol., No 11, 1958, No 48799

have been separated. An assorthent for street decoration is recommended. The article gives data on the resistance of the principal species to gas.

Card : 2/2

USSR / Forestry. Biology and Typology.

K-2

Abs Jour: Ref Zhur-Biol., No 16, 1958, 72778.

Author : Dobrovol'skiy, I. A.

Inst : Krivoy Rag State Pedagogical Institute. : Vegetation Renewal of Scme Tree-Shrub Species in Title

the Steppe Forest Plantations.

Orig Pub: Nauk. zap. Krivoriz'k. derzh. ped. in-t, 1957, vip.

2, 131-136.

~ . . /5

Abstract: Investigations (1950-1951) were conducted on fresh

cutovers in the Krivorozh Forest and in Khersonskaya Oblast (1954) on plantations of pedunculate oak, common ash and white acacia. Evaluative characteristics of the plantations were cited. The greatest shoot capacity is observed in oak (%C-35 shoots per stump at the 25-30 year age), which is strengthened in the middle-aged and

DOBROVOL'SKIY, I.A.

Cultivation of Metasequeia glyptostrebeides Hu et Cheng in steppe regions of the Ukrainian S.S.R. Bet. zhur. 44 no.2:199-202 F '59. (MIRA 12:6)

la Krivorozhskiy gesudarstvennyy pedagogicheskiy institut. (Ukraine--Sequeia)

RELOKON', I.P. [Bilokin', I.P.]; DORROYOL'SKIY, I.A. [Dobrovol'skyi, I.A.]

"Windomosci botaniczne" [in Polish], vols. 1-3, 1957-1959.

Reviewed by I.P.Bilokin', I.A.Dobrovol'skyi, I.A. Ukr.bot.

shur. 17 no.3:98-102 '60. (MIRA 13:7)

(Poland-Botany-Periodicals)

DOBROVOL'SKIY, I.A.[Dobrovol's'kyi, I.A.]

Results of the introduction of some ornamental trees and shrubs in the Krivoy Rog area. Ukr. bot. zhur. 18 no.1:87-91 (MIRA 14:3)

l. Krivorozhskiy gosudarstvennyy pedinstitut. (Krivoy Rog Basin-Plants, Ornamental) (Plant introduction)

DOBROVOL'SKIY, I.A. [Dobrovol's'kyi, I.A.]

Review of the journal "Wiadomosci Botaniczne", vol. 4, 1960. Ukr. bot. zhur. 18 no.5:107-108 '61. (MIRA 17:2)

DOBROVOL'SKIY, I.A. [Dobrovol's'kyi, I.A.]

Review of the journal "Wiadomosci botaniczne", vol,5, nos, 1-4, 1961. Ukr. bot. zhur. 19 no.6:105-107 '62. (MIRA 16:2) (Poland—Botany—Periodicals)

DOBROVOL'SKIY, I.A.

Use of new growth stimulants in floriculture. Biul. Glav. bot. sada no.53:52-55 '64. (MIRA 17:6)

1. Krivorozhskiy gosudarstvennyy pedagogicheskiy institut.

DOBROVOL'SKIY, I.A. [Dobrovol's'kyi, I.A.]

Review of the periodical "Wiadomosci botaniczne" for 1962. Ukr. bot. zhur. 21 no.1:105-109 '64. (MIRA 17:3)

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620019-8

SOV/162-58-3-7/26 9(1)

Dobrovol'skiy, I.F., and Chuzhkov, Yu.P. AUTHORS:

The Practical Value of the Kelleher Lens (K voprosu TITLE:

o prakticheskoy tsennosti linzy Kellekhera)

Nauchnyye doklady vysshey shkoly, Radiotekhnika i elektronika, 1958, Nr 3, pp 48-53 (USSR) PERIODICAL:

The authors compare the Kelleher lens to an ordinary ABSTRACT: hyperbolic lens. The results of experiments show the

directivity patterns of both lenses are practically idential under equal radiation conditions. The directivity diagram of the Kelleher lens is not a specific feature of the latter, if compared to the diagrams of horn and reflector antennas. Calculations performed by the authors show that the manufacture

of the more complicated Kelleher lens require a greater amount of material than the hyperbolic lens with

the same opening. There are 4 graphs and 1 English

reference.

Card 1/2

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620019-8

The Practical Value of the Kelleher Lens

SOV/162-58-3-7/26

ASSOCIATION:

Sibirskiy fiziko-tekhnicheskiy nauchno-issledovatel'-skiy institut (Siberian Scientific Research Institute of Physical Engineering)

SUBMITTED:

February 5, 1958

Card 2/2

9,1700

8/112/59/000/014/076/085 A052/A001

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 14, p. 249, # 30318

AUTHOR:

Dobrovol'skiy, I. F.

TITLE:

Calculation of the Near Field of a Vertical Antenna Located Over the

Earth's Surface

PERIODICAL: Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, 1958, No. 36,

pp. 409-418

A similar problem was solved previously without an allowance for real TEXT: excitation conditions of antenna (Earth effect); thus it was impossible to calculate the distribution of currents in the antenna, its impedance and the field amplitude. A wave equation for Hertz vector is composed; a complete Green function is derived which represents an expression for Hertz vector of an elementary dipole lifted to a certain altitude over the flat Earth with arbitrary electric characteristics. Two cases are considered: the first case includes decimeter and upward wavelengths at various grounds; the second case corresponds

Card 1/2

S/112/59/000/014/076/085 A052/A001

Calculation of the Near Field of a Vertical Antenna Located Over the Earth's Surface

to a predominance of bias currents over conduction currents in the ground, and encompasses practically the whole Earth surface from dry land to see water in SW and USW bands. Integration of the Green function obtained over the entire considered volume leads to Hertz vector, whose value makes it possible to calculate the components of electric and magnetic fields of the vertical antenna located over the Earth's surface.



V. I. M.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

8ЦЦ96 S/112/59/000/014/077/085 A052/A001

9,1700

Translation from: Referativnyy zhurnal, Elektrotekhnika, 1959, No. 14, pp. 249-250, # 30319

AUTHOR:

Dobrovol'skiy, I. F.

TITLE:

Input Resistance of a Vertical Vibrator Located Over the Earth's

Surface

PERIODICAL:

Tr. Sibirsk. fiz.-tekhn. in-ta pri Tomskom un-te, 1958, No. 36, pp.

419-426

TEXT: The problem is solved by the Leontovich-Levin method taking into account an approximate expression for the field near a vertical antenna under the following assumptions: a /1 << 1 and a /4 << 1, where a is the radius of cylindric vibrator, 1-its length, /4 - wavelength. The tangential component of electric current is found from an approximate expression for the Hertz vector of the vertical antenna, and the approximation is the better the higher is the lower end of the vibrator over the Earth. Expressions are obtained for the pure and imaginary part of input resistance of an arbitrarily long vertical vibrator. Expressions for input resistance of a vibrator with 1 = 1/2 are also given.

Card 1/2

8/112/59/000/014/077/085 A052/A001

Input Resistance of a Vertical Vibrator Located Over the Earth's Surface

Diagrams present the dependances of the pure and reactive components of the input resistance (in relation to the corresponding components for free space) of a half-wave vertical antenna on h. These dependances show that the electric parameters of a real surface begin to affect noticeably the resistance of a vibrator at $h \leq 0.25 \lambda$. Experimental data agree fairly well with the theoretical conclusions.

V. I. M.

Translator's note: This is the full translation of the original Russian abstract.

Card 2/2

DOBROVOL'SKIY, I.G., BRABICH, V.M.

Antonius Pius' coins from Alexandria with reproduction of zodiac signs. Ist.-astron.issl. no.5:223-229 '59.

(MIRA 12:12)

(Alexandria--Coins, Ancient)

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620019-8

DOBROVOL'SKIY, I. M.

Machines for planting grapevines. Vin. SSSR No 4, 1952.

FETTSARENKO, A.M. [Feitsarenko, A.M.], otv. red.; PREDKO, I.G. [Predko,, I.H.), red.; CRIN'KO, T.F. [Hrin'ko, T.F.], kand. sel'khoz. nauk, red.; DEMCHENKO, P.K., red.; DOBROVOL'SKIY, I.M. [Dobrovols'kyi, I.M.], red.; LIMAR, F.M. [Lymar, F.M.], red.; SEMENOV, F.G. [Semenov, F.H.], FEYTSARENKO, G.I. [Feitsarenko, H.I.], kand. sel'khoz. nauk, red.; VAS'KOVSKIY, Yu.I. [Vas'kovs'kyi, IU.I.], red.; VIDONYAK, A.P. [Vidoniak, A.P.], tekhn. red.

[Sixty years of the Cherkassy (formerly Verkhnyaki) State
Agricultural Experiment Station; collection of scientific papers]
60 rokiv Cherkas'koi (kol. Verkhniats'koi) derzhavnoi sil's'kohospodars'koi doslidnoi stantsii; zbirnyk naukovykh prats'. Kyiv,
Vyd-vo Ukrains'koi akad. sil's'kohospodars'kykh nauk, 1961. 145 p.

(MIRA 15:2)

1. Cherkassy. Derzhavna sil's'kohospodars'ka doslidna stantsiya.
2. Direktor Cherkasskoy gosudarstvennoy sel'skokhozyaystvennoy opytnoy stantsii(Ter Feytsarenko; A.Mi). 3. Zavedtyushchiy otdelom selektsii sakharnoy svekly Cherkasskoy gosudarstvennoy sel'skokhozyaystvennoy opytnoy stantsii (for Grin'ko).

(Continued on next card)

FEYTSARENKO, A.M. -- (continued) Card 2.

4. Zaveduyushchiy otdelom obrabotki pechvy Cherskasskoy go-sudarstvennoy sel'skokhozyayatvennoy opytnoy stantsii (for Demchenko). 5. Zaveduyushchiy otdelom skotovodstva Cherkasskoy gosudarstvennoy sel'skokhozyaystvennoy opytnoy stantsii (for Limar). 6. Zaveduyushchiy otdelom selektsii zernovykh kul'tur Cherkasskoy gosudarstvennoy sel'skokhozyaystvennoy opytnoy stantsii (for Feytsarenko, G.I.).

(Cherkassy-Agricultural experiment stations)

DOBROVOL'SKIY, I.P.; DONDE, M.V.; NEMIROVSKIY, N.Kh.

Certain problems involved in the planning and operating of pitch coke units. Koks i khim. no.1:33-37 '61. (MIRA 14:1)

1. Chelyabinskiy metallurgicheskiy zavod. (Chelyabinsk—Coke)

DOBROVOL'SKIY, I.P.; PATRIKEYEVA, L.M.; Prinimali uchastiye: CHERVOV, A.P.; KOSTENKO, A.R.; PARTINA, T.V.

Utilization of pitch distillates for the production of high temperature pitch. Koks i khim. no.4:48-50 161. (MIRA 14:3)

1. Chelyabinskiy metallurgicheskiy zavod (for Dobrovol'skiy, Patrikeyeva). (Chelyabinsk-Pitch)

KHOLOPTSEV, V.P.; DOBROVOL'SKIY, I.P.; NEYZHMAK, V.Ye.; DUBOVIK, A.N.

Improved methods for the production of electrode coke. Koks i khim. no.7:29-32 Jl '61. (MIRA 14:9)

1. Chelyabinskiy metallurgicheskiy zavod (for Kholoptsev, Dobrovol'skiy). 2. Koksokhimstantsiya (for Neyzhmak, Dubovik). (Coke industry)

"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620019-8

Changes in the method of pitch preparation. Koks i khim. no.8:
33-34 '61.

1. Chelyabinskiy metallurgicheskiy zavod.
(Chelyabinsk--Coke ovens) (Pitch)

SHEMERYANKIN, B.V.; KOPELIOVICH, L.V.; DOBROVOL'SKIY, I.P.; OSHCHEPKOVA, N.V.

Studying the formation of the porous structure of pitch coke. Koks i khim. no.3:25-28 '63. (MIRA 16:3)

1. Chelyabinskiy metallurgicheskiy zavod (For Shemeryankin, Kopeliovich, Dobrovol'skiy, I.P.). 2. Gosudarstvennyy nauchno-issledovatel'skiy institut elektrodnoy promyshlennosti (for Oshchepkova).

(Coke)

DOBROVOL'SKIY, I.P.; USTUPNYY, V.A.; AKULOV, P.V.; PRAVDIN, V.N.

Modification of the spraying system for coke quenching. Koks i khim. no.12:25-27 '63. (MIRA 17:1)

1. Chelyabinskiy metallurgicheskiy zavod.

DOBROV)L'SKIY, I.P.

Application of high-speed motion-picture photography in a polarized light for studying stress wave propagation.
Usp.nauch.fot. 9:256-257 164.

(MIRA 18:11)

\$/055/60/000/03/07/010

AUTHORS: Dobrovol'skiy, I.P., Kopytov, V.D., and Lyu Guannin

TITLE: Analysis of Contact Pressures of Thick Stamp Plates of a Heavy Stamping Press 14

Vestnik Moskovskogo universiteta. Seriya I, matematika, PERIODIC/L: mekhanika, 1960, No. 3, pp. 60-66

TEXT: By models of a transparent optically active material the contact pressures of thick stamp plates were determined experimentally. The experimental results were compared with the results of approximate computing methods. Since the calculations were made under very rough assumptions of approximation, there is only a partial agreement between the experiment and the approximate calculation. Nevertheless the author is of opinion that the usefulness of the approximate methods (Ref. 2, 3, 4, 5) is confirmed by the experiments.

There are 7 figures, 3 tables and 5 Sovie references.

ASSOCIATION: Kafedra teorii uprugosti (Dupartment of Theory of Elasticity) SUBMITTED: September 9, 1959

Card 1/1

Using the method of photoelasticity in determining contact pressures.

Izv.AN SSSR.Otd.tekh.nauk.Nekh.i mashinostr. no.4:154-155 J1-Ag
160. (MIRA 13:8)

(Photoelasticity)
(Strains and stresses)

86201

s/055/60/000/005/010/010 c111/c222

TITLE: The Photoelastic Method for Stress Determination by Fringe Patterns
PERIODICAL: Vestnik Moskovskogo universiteta. Seriya I, matematika,

The difference of the main stresses $m = 5_1 - 6_2$ in the whole model is

determined from the fringe patterns so that

(1)
$$(x_x-y_y)^2+4x_y^2=m^2$$

becomes an equation with a known right side. If the forces due to inertia equal zero then for the plane model it besides must be:

(2)
$$\frac{\partial x}{\partial x} + \frac{\partial x}{\partial y} = 0$$

(3)
$$\frac{\partial x}{\partial \lambda} + \frac{\partial \lambda}{\partial \lambda} = 0,$$

and

card 1/3

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S/055/60/000/005/010/010 C111/C222

The Photoelastic Method for Stress Determination by Fringe Patterns

(4)
$$\nabla^2 = 0$$
,

where $\nabla^2 = \frac{3^2}{3x^2} + \frac{3^2}{3y^2}$, $G = X_x + Y_y$. If O_x is the axis of symmetry then on it $X_y = 0$, and from (1) it follows $X_x - Y_y = m$. Eliminating $X_x + Y_y$ from (2)+(3)

with the aid of (4) and (1) then one obtains for $\beta = \frac{\partial X_y}{\partial y}$

(5)
$$4\frac{\partial 3}{\partial x} = -4\frac{\beta^2}{m} + \frac{3^2m}{2v^2} = \frac{3^2m}{2x^2}.$$

If β is determined from (5) then from (2) it follows that $X_x = X_x - \int_{x_0}^{x} \beta dx$.

In the singular point (for m=0) $\frac{2}{m}$ changes to zero, and (5) assumes the

(6)
$$4 \frac{\partial \beta}{\partial x} = \frac{\partial^2 m}{\partial y^2} = \frac{\partial^2 m}{\partial x^2}$$

S/055/60/000/005/010/010 C111/0222

The Photoelastic Method for Stress Determination by Fringe Patterns
The application of the equations (5) and (6) with the transition to the
difference equation is discussed by the example of a disk compressed by
two single forces; the author determines the distribution od stresses
along a diameter perpendicular to the line of action of force.

There are 3 figures and 2 references: 1 Soviet and 1 English.
ASSOCIATION: Kafedra teorii uprugosti (Chair of Theory of Elasticity)

SUBMITTED: December 12, 1959

X

Card 3/3

\$/110/61/000/002/002/009 E194/E455

AUTHORS:

Dobrovol'skiy, I.P., Engineer,

Kartashkin, B.A., Engineer, Kopytov, V.D., Engineer, Skoryy, I.A., Candidate of Physical and Mathematical

Sciences

TITLE:

An Investigation by the Photo-Elasticity Method of the Stresses in the Assemblies Used to Fix the Active Steel

in Hydro-Alternators

PERIODICAL: Vestnik elektropromyshlennosti, 1961, No.2, pp.8-13

The assemblies used to secure the stator cores in hydro-TEXT: alternators sometimes fail, principally near the welds. assembly is loaded by the radial magnetic attraction of the poles and by tangential forces due to electromagnetic torque. The ratio of these loadings is different under different conditions and as yet sufficiently reliable methods of determining them do not exist. These loadings and the places of highest stress are usually determined by full-scale tests on assemblies, using strain gauges. The location of the strain gauges is selected arbitrarily. accurate design it is necessary to determine separately the stresses due to the axial and radial loading so as to assess their Card 1/8

Card 2/8

S/110/61/000/002/002/009 E194/E455

An Investigation by the Photo-Elasticity Method ...

Then when full-scale tests are made, the strain combined action. gauges can be placed at the most significant points. It is also important to determine the stress distribution in the thickness of the rings that support the keying ribs. Stress changes resulting from alterations in the rigidity of the joints are also important. It is not possible to study all these problems by means of full-Accordingly, tests were made by the photo-elasticity method, using transparent models in polarized light. This method is effective for determining the stress distribution over the whole rangeand, moreover, no initial stresses are introduced in the manufacture of the models which could distort the results, principles of the photo-elastic methods of stress determination are briefly explained. It is noted that, if the models are heated under load to a temperature of 100 to 150°C and then slowly cooled under load to room temperature, the stress condition may be retained in the model and is not altered when it is sectioned. By this means, the sections may be studied to determine the stress distribution throughout the body of the model. This method was used in making

An Investigation by the Photo-Elasticity Method ,.,

Fig.1 shows a model of a fixing assembly consisting of the study. a support ring 1 which is fixed to the stator frame of the alternator, a block 2 welded to the ring and a keying rib In an actual machine there are several rings welded to the block. but, to avoid difficulties in modelling, only an individual assembly The model was made on a scale of 1/5. To study the was studied. influence of assembly rigidity, three methods of fixing were used. In the first, the ring and keying rib were made in one solid piece: in the second and third, the assemblies were made of separate parts Each of the stuck together to imitate welds of different kinds, models was tested under radial and tangential loading applied mechanically; stresses were determined at four sections. equal slope of main stresses (isoclines) and trajectory of main stresses (isostats) were constructed. The differences in the principal stresses were determined along the selected sections: by integration of the equilibrium equation, the detailed stress distribution was determined. With radial loading stress concentrations were observed in sections of the ring close to the Card 3/8

An Investigation by the Photo-Elasticity Method ...

keying rib in the region between the welded joints. distance from the wedge increases, the distribution of stress over the ring thickness becomes more uniform. With tangential loading the stress distribution did not depend much on the method of Stress peaks are observed in places near constructing the model. Here, all three stresses are the side faces of the block, considerable and should be allowed for in assessments of strength. The results obtained by the photo-elasticity methods were compared with strain gauge test results on radially-loaded models fabricated in metal and annealed before test to remove remanent The stress distributions obtained by the two methods stresses. By the photo-elasticity method, the conditions of were compared. equilibrium are fulfilled to within 6 to 7%, whereas the tests on metal models in the corresponding sections indicate that the conditions of equilibrium are fulfilled to within 40%. difference is due to bending of the rings that occurs in the tests on the metal models. Because of the test conditions most of the strain gauges are fixed to one side of the ring. A few gauges Card 4/8

An Investigation by the Photo-Elasticity Method ...

fixed on the other side demonstrated the presence of bending, which altered the stress distribution by 20 to 30% as compared with uniform distribution throughout the thickness. Because of the small number of strain gauges on the lower side, it was not possible to make allowance for bending when the results were worked out. It should be noted that when stresses are determined on a transparent model, the method is such that the measured stresses are averaged out over the thickness of the ring and the results are not affected by bending. It is possible to calculate the stress distribution for the case of radial loading; experimental and calculated values are compared; there are certain differences for which an explanation is offered. consideration of the general picture of stress distribution under the influence of radial and tangential loads, as determined by the photo-elasticity method, certain recommendations may be made for full-scale testing. If the strain gauges are fixed on the axis of symmetry of the block, where the stresses are only due to the action of radial forces, the magnitude of the radial force may Card 5/8

An Investigation by the Photo-Elasticity Method ...

With this knowledge, it is possible to readily be calculated. calculate the stresses due to radial loading in the ring on both sides of the axis of symmetry of the block. Then, if strain gauges are fitted in these places, it is possible to obtain the stress distribution due to tangential loading by subtracting from the total stress the stress due to radial loading. Here, it is of considerable assistance to note that the stress distribution due to Hence, by adding tangential loading is obliquely symmetrical. together the indications of two symmetrically-located strain gauges, its effect may be neutralized and the stress due to the radial force may be determined more accurately. Strain gauges for measuring stress should be fixed to the ring at a distance from the block of not less than 1.5 times the thickness of the ring. distance, the influence of irregularities in the stress distribution within the thickness of the ring will be without It is also advisable to fix check strain gauges on the effect, opposite side of the ring, to exclude errors that may be introduced by bending. The tests by the photo-elasticity Card 6/8

An Investigation by the Photo-Elasticity Method ...

method were made by the Laboratoriya opticheskogo metoda issledovaniya napryazheniy (Laboratory for the Optical Method Research of Stresses) MGU jointly with the section for dynamic research of Laboratoriya elektricheskikh mashin (Laboratory for Electrical Machinery) VNIIE, and those by the strain gauge method by the above named laboratory of VNIIE at the Institut elektrosvarki imeni O.Ye.Patona (Electric Welding Institute imeni O.Ye.Paton). There are 11 figures.

SUBMITTED: March 17, 1960

Card 7/8

An Investigation by the Photo-Elasticity Method ...

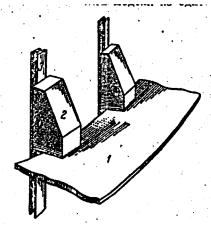


Рис. 1. Скема конструкции узла крепления

Card 8/8

Fig.1.

DOBROVOL'SKIY, I.P. (Moskva); KOPYTOV, V.D. (Moskva)

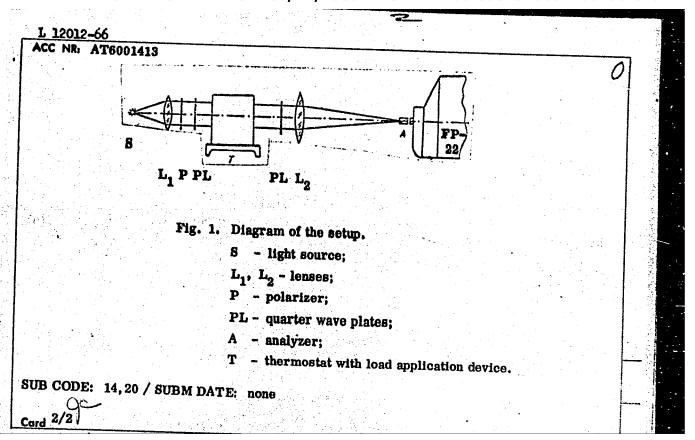
Determining contact pressures on three-dimensional models. Inzh. zhur. 1 no.4:172-174 '61. (MIRA 15:4)

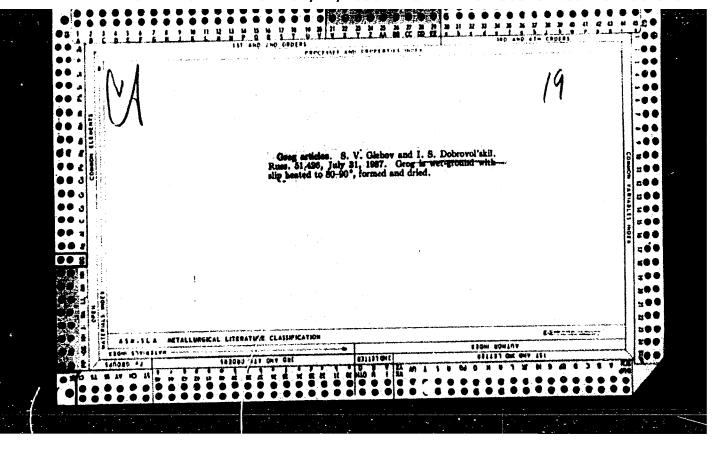
(Strains and stresses)

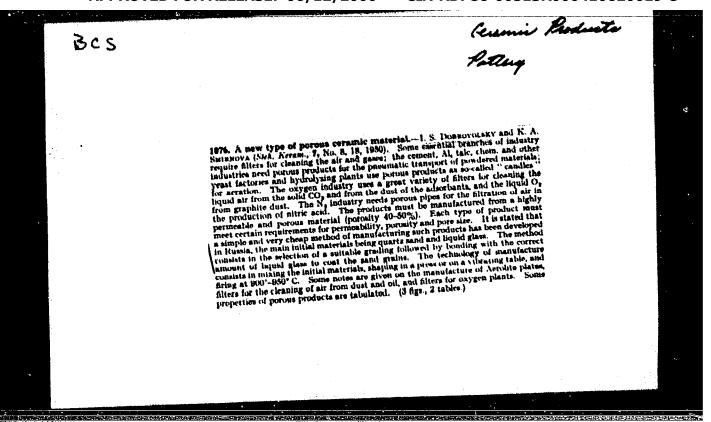
"APPROVED FOR RELEASE: 06/12/2000 (

CIA-RDP86-00513R000410620019-8

EWT(d)/EWT(1)/EWT(m)/EWP(w)/EWP(j)/T/EWA(c) L 12012-66 IJP(c) ACC NR: AT6001413 SOURCE CODE: UR/3180/64/009/000/0256/0257 AUTHOR: Dobrovol'skiy, ORG: None TITLE: The application of high-speed motion picture photography in polarized light for the study of stress wave propagation SOURCE: AN SSSR. Komissiya po nauchnoy fotografii i kinemtografii. Uspekhi nauchnoy fotografii, v. 9, 1964. Vysokoskorostnaya fotografiya i kinematografiya (High-speed photography and cinematography), 256-257 and appropriate insert following page 256 TOPIC TAGS: high speed photography, photoelasticity, stress analysis, motion picture photography/FP 22 motion picture camera 4455 ABSTRACT: The note describes photoelastic dynamic tests carried out at the Department of showed that a 200 to 300 fold decrease in the modulus of elasticity is accompanied by a 3 - 6 fold decrease in stress wave velocity rather than 14 - 17 fold as expected according to the elementary theories of stress wave propagation. The discrepancy seems to be due to the influence of the Poisson coefficient (which at 120 - 140C is about 0.5) which is not taken into account by elementary theory. Orig. art. has: 1 figure. **Card** 1/2

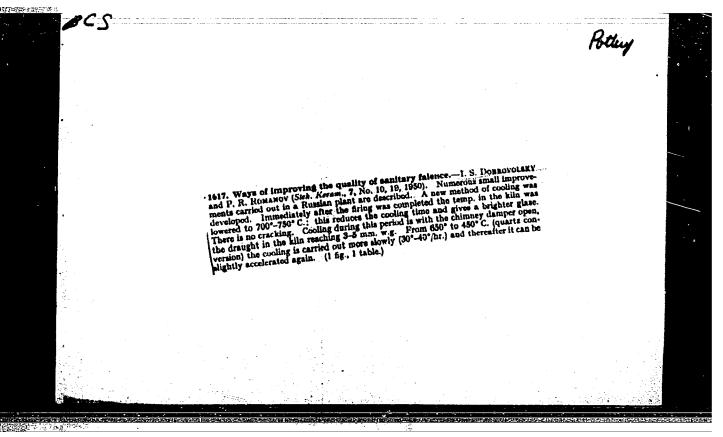


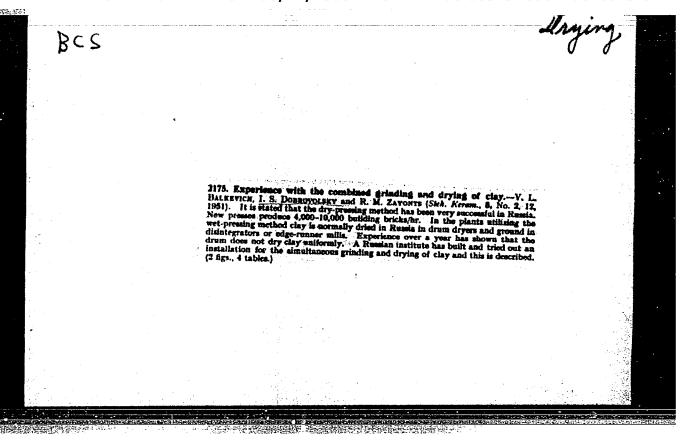




APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000410620019-8"

A CONTROL OF A STANDARD SECURE AND ADMINISTRATION OF A CONTROL OF A CO





TOROFOV, N.A.; DOBROVOLISKIY, K.A.

Effect of sodium and potassium exides on the mineralogical composition of pertland cement clinker. Izv. AN SSSR. Neorg. mat. 1 no.5:769-774 My 165. (MERA 18:10)

1. Enstitut khimii silikatov imeni Grebenshchikova AN SSSR.

EWT(1)/EWA(1)/T/EWA(b)-2

ACC NR: AP6006641

SOURCE CODE: UR/0016/65/000/001/0057/00/0

AUTHOR: Aleksandrov, N. I.; Gefen, N. Ye.; Dobrovol'skiy, K. F.; Yezepchuk, Yu. V.; Lebedinskiy, V. A.; Mikhaylov, B. Ya.; Runova, V. F.; Seregina, A. I.; Filippenko, A.

ORG: none

TITLE: Immunogenicity of chemical anthrax vaccine tested in sheep

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 1, 1965, 57-60

TOPIC TAGS: vaccine, immunology, anthrax

ABSTRACT: The authors improved the chemical anthrax vaccine that they had developed several years before. Simple an arrangement of the chemical anthrax vaccine that they had developed several years before. Single as well as double inoculations of sheep produce i immunity to infection from 100 Dcl of virulent anthrax bacillae. Further research is needed to determine the minimal immunizing dose for sheep and the duration of the immunity. Orig. art. has: 3 tables. [JPRS]

SUB CODE: 06 / SUBM DATE: 29Jun63 / ORIG REF: 003 / OTH REF: 008

UDC: 616.981.51-085.372-036.8-092.9

DOEROVOLSKIY, K. I.

Izucheniye svoystv lessovykh gruntov Sb. "Stroitelstvo na lessovidnykh gruntakh" Stroyizdat 1939

ALEKSANDROV, N.I.; GEFEN, N.Ye.; DOBROVOL!SKIY, K.F.; YEZEPCHUK, Yu.V.; LEBEDINSKIY, V.A.; MIKHAYLOV, B.Ya.; RUNOVA, V.F.; SEREGINA, A.I.; FILIPPENKO, A.I.

Immunogenicity of chemical anthrax vaccine in experiments on sheep. Zhur, mikrobiol., epid. i immun. 42 no.1:57-60 Ja '65.

(MIRA 18:6)

DOBROVOLSKIY, L. A., (USSR)

"Some Features of the Denaturation Changes in Body Proteins Associated with the Effects of Different Temperatures and Temperature Changes."

Report presented at the 5th Int'l. Biochemical Congress, Moscow, 10-16 Aug 1961.

BARIYEV, Nazim Vafinovich; DOBROVOL'SKIY, Law Alekseyevich; SEDAKOV, Leonid Vasil'yevich; RADIN, V.I., red.; BUL'DYAYEV, N.A., tekhn. red.

[Amplidyne amplifiers] Elektromashinnyi usilitel' poperechnogo polia. Moskva, Gosenergoizdat, 1962. 55 p. (Biblioteka elektromontera, no.80) (MIRA 16:6) (Retating amplifiers)

DOBROVOL'SKIY, L.A.

Changes in protein metabolism during the prolonged action of a high temperature. Gig. i san. 26 no.6:25-28 Je *61. (MIRA 15:5)

1. Iz Kiyevskogo instituta gigiyeny truda i professional nykh zabolevaniy. (HEAT—PHYSIOLOGICAL EFFECT) (PROTEINS METABOLISM)

NAUMOV, I.K., kand. tekhn. nauk; DOBROVOL'SKIY, L.A., gornyy inzhener; CHAYANOV, V.A., gornyy inzhener

Problems in the over-all automatic control of an open-pit mine. Nauch. trudy Mosk. inst. radioelek. i gor. elektromekh. no.46: 24-29 '62. (MIRA 17:1)

TROP, Abram Vafimovich, doktor tekhn. nauk; ARSHINSKIY, Vadim Mefod'yevich, kand.; DOBROVOL'SKIY, L.A., retsenzeni;

[Electrical equipment and automation of concentrating plants] Elektrooborudovanie i avtomatizatsiia obogatitel'nykh fabrik. Izd.3., perer. i dop. Moskva, Izd-vo "Nedra," 1964. 369 p. (MIRA 17:6)

DOBROVOL'SKIY, L. A. (Kiyev)

Changes in the protein fractions of the blood serum under the influence of temperature drops and their hygienic significance. Gig. truda i prof. zab. no.2:19-26 '62. (MIRA 15:2)

(BLOOD PROTEINS) (TEMPERATURE PHYSIOLOGICAL EFFECTS)

DOBROVOL'SKIY, L.A., kand. med. nauk

Changes in the sex cycls and the dynamics of radioactive phosphorus (P³²) concentration in the ovaries following repeated entering of small quantities of the isotope into the body; experimental research. Akush, i gin. 40 no.5:153-154 S-0 64.

(MIRA 18:5)

1. Kiyevskiy institut gigiveny truda i professionalinykh zabolevaniy (dir. - prof. L.I.Medvedi).

L 56544-65

ACCESSION NR: AP5010361

UR/1705/65 1705 170 7 17 17

AUTHOR: Khveymitskaya, M. A.; Dobrovol'skiy, L. A.; Likhtarev, J. .

TITLS: Differences in radiophosphorus effective half-life kineture - - - - religious and the control of the con

SOURCE: Radiobiologiya, v. 5, no. 2, 1965, 310-311

TOFIC TAGS: animal, mouse, phosphorus-32, single dose, fractional confective haif-life

ABSTRACT: The first of two experimental groups of white mice weighter is all received a single adoptaneous injection of FM (* microcurs).

made to be considerably higher than experimental findings. Whereas the zero when concentration in the overy for a single P32 dose was 1.5% of initial activity

Cord 1/2

L 56544-65

ACCESSION NR: AP5010361

and effective half-life was 5.5/1 days, corresponding values for the chronic P^{32} dose were 0.77 gA and 3.3 days. No explanations for the significant differences in 17 kinetics in the ovaries are offered. Only he figures and 3 formulas.

ASSOCIATION: Kiyevskiy nauchno-issledovatel'skiy institut gigiyeny trais i profiaboleveniy (Kiev Scientific-Research Institute of Labor Byking the Association of Scientific Profiles of

SUBMITTED: 10Jun63

ENCL: 00

SUB CODE

NR REF SOV: 002

OTHER: 000

Card 2/2

DOBROVOL'SKIY, L. A.

Electric prospecting in the search for underground waters under complex geological conditions. Izv. vys. ucheb. zav.; geol. i razv. 7 no.12:110-115 D '64. (MIRA 18:12)

DOBROVOL'SKIY, L.G.

Calculating the jointing of rail lengths. Put' i put.khoz. 4 no.10:8 0 '60. (MIRA 13:9)

1. Nachal'nik proizvodstvenno-tekhnicheskogo otdela putevoy mashinnoy stantsii st. Chany, Omskoy dorogi.
(Railroads--Maintenance and repair)

(Khar'kov) kand.filosof.nauk; MIKHNO, L.S., kand.med.nauk

Significance of Lenin's ideas for the development of the natural sciences, especially medicine. Vrach.delo no.4:343-347 Ap '60.

(MIRA 13:6)

(LENIN, VLADIMIR IL ICH, 1870-1924)

DORROVOL'SKIY, L.G. [Dobrovols'kyi, L.H.]

Modern electronic calculating machines and the mental activity of man. Fiziol.zhur.Ukr. 6 no.4:450-458 J1-Ag '60.

(MIRA 13:7)

1. Kafedra filosofii Politekhnicheskogo instituta, Khar'kov. (CYBERNETICS)

DOBROVOL'SKIT, L./E.

Problemy gruzooborots Bol'shoi Volgi. The problem of freight traffic of the Greater Volga. (Vodnyi transport, 1940, no. 10, p. 4-7). DLC: HE561.R8

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress, Reference Department, Washington, 1952, Unclassified.

DOBROVOL'SKIZ, L.YE.

Polnist'iu ispol'zovat' ekonomicheskie preimushestva rechenogo transports v neftepervozkahk. To use the economic advantages of river transportation for iol shipment. (Rechnoi transport, 1950, v. 19, no. 6, p. 4). DLC: TC691.R4

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
Description 1952. Unclassified.

KOVALEV, Aleksendr Ivenovich; PALKIN, A.K., retsenzent; IXBROVOL'SKIY,
L. Ye., retsenzent; SOLOV'YEV, I.V., red.; LOBANOV, Ye.M., red.
izd-va; YERMAKOVA, T.T., tekhn.red.

[Improvement of the use of navigable canals for transportation]
Uluchshenie transportnogo ispol'zovaniia sudokhodnykh kanalov.

Noskva, Izd-vo "Rechnoi transport," 1958. 49 p. (MIRA 12:2)

(Inland water transportation)

DOBROVOL'SKIY, M. [Dobrovol's'kyi, M.], kand.tekhn.nauk; KRYLOV, Yu., kand.tekhn.nauk

Tamed fire. Nauka i zhyttia 12 no.11:12-13 N '62. (MIRA 16:1) (Rockets (Aeronautics))

DOBROVOL'SKIY, M., starshiy inshener

Mechanization of interfarm brick and tile factories. Sel'.stroi. 15 no.7:14-15 Jl '60. (MIRA 13:8)

l. Upravleniye stroitel'stva Nikolayevskogo oblastnogo upravleniya sel'skogo khosyaystva.

(Collective farms--Interfarm cooperation)

(Brickmaking machinery)

(Tiles)

DOBROVOL'SKIY, M. [Dobrovol's'kyi, M.]

Efficient mechanization of interfarm brick and tile factories. Sil'. bud. 11 no.1:17-19 Ja '61. (MIRA 14:3)

1. Starshiy inzh.upravleniya stroitel'stva Nikolayevskogo oblsel'khozupravleniya. (Ukraine—Brick industry)

DOBROVOL'SKIY, M. [Doborvol's'kyi, M.]

Production of clay grooved tiles by the ribbon method. Sil'.bud. 13 no.5:13 My '63. (MIRA 17:3)

1. Nachal'nik otdela stroitel'nykh materialov Nikolayevskoy oblastnoy mezhkolkhoznoy stroitel'noy organizatsii.

DUNAYEV, F.; DOBROVOL'SKIY H.

Collection of works of the All-Union Petroleum Scientific Research Institute for Geological Survey: "Economic Efficiency of Prospecting." Geol. nefti i gaza 8 no.5:49-52 My 164. (MIRA 17:9)

POBROVOL'SKIY, M.B.; RUBIN, S.B.; KANEVSKAYA, M.D., red.; KARYAKINA, M.S., tekhn.red.

[Goncise dictionary of terms and definitions in the fields of atomic energy, atomic weapons, and atomic defense] Kratkii slovar' nekotorykh terminov i opredelenii po atomnoi energii, atomnomu oruzhiiu i protivoatomnoi zashchite. Moskva, Izd-vo DOSAAR, 1958.
61 p. (Atomic energy-Dictionaries)

DUNAYEV, F.F.; DOBROVOL'SKIY, M.B.; YEGOROV, V.I.; PAVLINICH, E.A.

Economic efficiency of oil prospecting and some ways for increasing it. Trudy MINKHiGP no.49:3-22 '65.

(MIRA 18:8)

DOBROVOL'SKIY, M.B.

Effect of some factors of the distribution of petroleum reserves on the efficient ratio between the reserves and their production. Izv. vys. ucheb. zav.; neft! i gaz 5 no.3:115-119 '62. (MIRA 16:8)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M. Gubkina.

DUNAYEV, F.F.; KOZLOV, P.T.; DOBROVOL'SKIY, M.B.

Indices of the economic effectiveness of oil prospecting and means for improving them. Izv.vys.ucheb. zav.;neft' i gaz 5 no.5: 113-117 '62. (MIRA 16:5)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M.Gubkina. (Petroleum geology)

DOBROVOL'SKIY, M.B.; DUNAYEV, F.F.; YEGOROV, V.I.

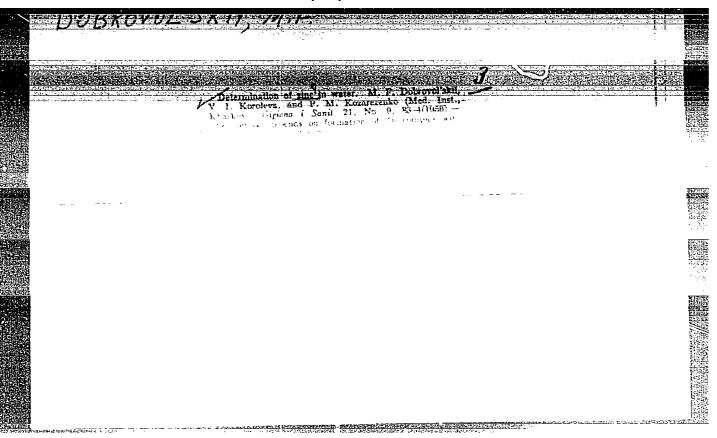
Comparative measurement of petroleum reserves of various categories. Izv.vys.ucheb.zav.; neft' i gaz 5 no.12:107-110 '62.

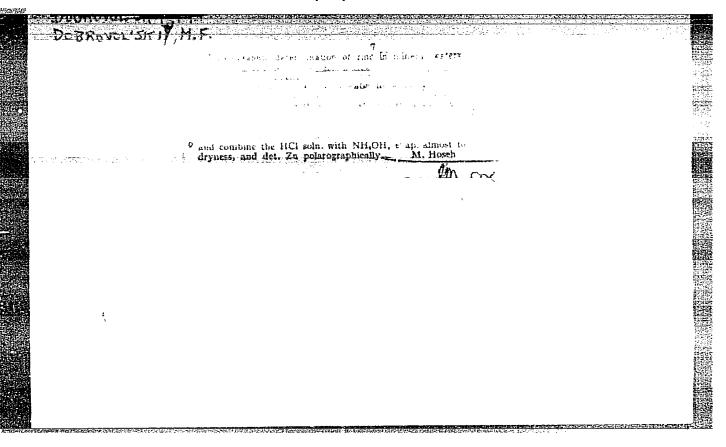
(MIRA 17:4)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika Gubkina.

DOBROVOLISKIY - M.B.

Economic significance of the classification of oil reserves. Trudy MINKHiGP no.49:23-40 165. (MIRA 18:8)





Dobrovok'skiy, M.I. (Rostov-na-Donu).

Using the Russian commercial abacus in grade 9 algebra classes.

Nat. v shkole no.2:65 Mr-Ap '58.

(Abacus)

16.6100

5/044/61/000/012/032/054 0111/0333

AUTHOR:

Dobrovol'skiy, M. N.

TITLE:

On the solution of a system of recurrent equations

PERIODICAL:

Referativnyy zhurnal, Matematika, no. 12, 1961, 65, abstract 12B276. ("Toh. zap. Tul'sk. gos. ped. in-t",

1960, vyp. 7, 220-223)

The author determines the number of permutations f(n,1)TEXT: of the elements of the pairs a1, a2; b1, b2; ..., k1, k2 in which the elements 1 of the pairs stand side by side. It is proved that the probability of such permutations has the limit value $6'(1) = e^{-1}/1!$,



i. e. that $\lim \frac{f(n,1)}{(2n)!} = e^{-1}/1!$.

Abstracter's note: Complete translation.

Card 1/1

BOGATSKIY, V.V., otv. red.; GOR'KIY, Yu.I., red.; DORROVOL'SKIY,
M.N., red.; KOROPETS, I.P., red.; KURTSERAYTE, Sh.D., red.;
PEL'TEK, Ye.I., red.; FAYNEERG, F.S., red.; KHAZAGAROV,
A.M., red.; SHESTAKOV, Yu.G., red.; LIFSHITS, L., red.

[Geclogy and geochemistry of the mineral resources of Krasnoyarsk Territory] Geologiia i geokhimiia poleznykh iskopaemykh Krasnoiarskogo kraia; sbornik statei. Krasnoiarsk, Krasnoiarskoe knizhnoe izd-vo, 1964. 197 p.

(MIRA 18:9)

1. Krasnoyarshaya kompleksnaya ekspeditsiya.

DOBROVOL'SKIY, M.O. [Dobrovols'kyi, M.O.]

Machine for baling hemp stalks. 19h. prom. no.2:38-39 Ap-Je 64 (MIRA 17:7)

USSR/Cultivated Plants - Fruits. Berries.

M

Abs Jour : Ref Zhur Biol., No 12, 1958. 53838

Author

: Dobrovol'skiy, M.P.

Inst Title

: Requiremention of Old Vineyards

Orig Pub

: Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, 1956,

No 3, 10-12

Abstract

tion from thick runners and their suckers was used for the rejuvenation of old vineyards on the Ul'yanov Sovkhoz in the Odesskaya Oblast'. For the experiment, a plot (1.8 ha area) of Senso variety of the 1924-1925 planting was taken. The yield of this planting dropped to 3-3.75 cwt/ha as the result of branch injuries. Prior to rejuvenation, the restoration of the planting (70-75 cm) was carried out and mineral fertilizers (200 kg Naa and 700 kg Pc per Ha) were applied. The old injured branches

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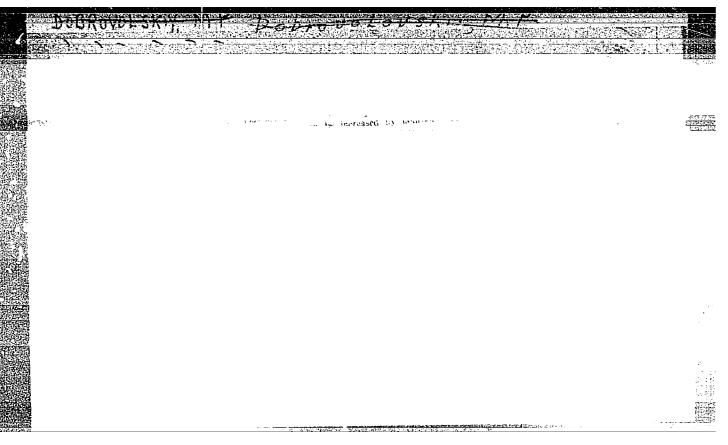
USSR/Cultivated Plants - Fruits. Derries.

М

Abs Jour : Ref Zhur Biol., No 12, 1958, 53838

were cut from the well cleared top of the plant. During vegetation, the weak plants were given a supplementary dressing of liquid manure in the hole at the rate of 100 g P_c and 60 g N_{aa} to 10 liters of water per plant. 10 tons of humus and 500 kg of P_c per 1 ha were applied in fall. In spring, a large number of runners appeared; their tops were pinched off in order that each of the shoots developed 3-4 suckers. The suckers became fruit shoots and they were pinched several times during the summer which speeded up the formation of the arms. -- Ye.T. Zhukovskaya

Card 2/2



USSR/Cultivated Tlants. Fruits. Borries.

11

Abs Jour : Rof Zhur-Biol., No 15, 1950, 68372

Author : Dobrevol'skiy, M. T.

Inst Title

: Supplementary Sleeves to Eliminate

Grapevine Sparsity.

Ori; Tub: Sadovodstvo, vinogradarstvo, i vinodeliye Moldavii, 1957, No 2, 20

Abstract : No abstract.

Card : 1/1

186

COUNTRY	USSR Cultivated Plants. Fruits. Berries.	
CATEGORY	: RZhBiol., No. 23 1958. No. 104818	
ABS. JOUR.	Dobrovol'skiy, M. P.	
Thou	· Topdressing Grapes.	
TITLE	TOTAL.	
ORIG. PUB.	Gredineratul, viveritul shi vineritul Moldovey; Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, *) Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, *) Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, *) the Sovkhoz imeni Uliyanov (Odessa oblast'), the Sovkhoz imeni Uliyanov (Odessa oblast'), the Sovkhoz imeni Uliyanov (Odessa oblast')	
ABSTRACT	the topdressing of the Toltanhurg	
	(affected with oleistogamy and forming a large processor (affected with oleistogam) and oleistogam (affected with oleistogam (
	of rea-size belinated and products 100 g of Fee	
	The composition of the supplementary feeding. 20 of 20 g of K_x , 50 g of N_a , 1 g of boric acid and 2 = of	
	*) 1957, No. 3, 8-10	
i i	7) 1,721,	

COUPTRY
CATEGORY:

ABS. JOUR.: RZhBiol., No. 1958, No. 104818

AUTHOR:
INST.:
ITILE:

ORIC. PUB.:

ABSTRACT: ammonium molybdate to 10 liters of 1.5% Bordeaux mixture.
Considerable increase in the yield was noted when the
topdressing was accompanied by
supplementary pollination. — R. I. Serebryannyy

CARD: 2/2

TOUBROVOLISKIY, M.V.

N/5 667.31 .S6

* Sinyarev, Gennadiy Borisovich

Zhidkostnyye raketnyye dvigateli; teoriya i proyektirovaniye [Liquid fuel rocket engines; theory and design, by] G.B.S'nyarev i M.V. Dobrovol'skiy. Moskva, Oborongiz, 1955.

v. illus., diagrs., tables. Includes bibliographies. Lib. has: 1955 1957 (2.Izd.)

POBROUGHSKY PHASE I BOOK EXPLOITATION 351

MISTISLAN VLADIMIROVICH

Sinyarev, Gennediy Borisovich and Dobrovol'skiy, Matislav Vladimirovich

Zhidkostnyye raketnyye dvigateli; teoriya i proyektirovaniye (Liquid Propellant Rocket Engines; Theory and Design) 2d ed., rev. and enl. Moscow, Oborongiz, 1957. 579 p. Number of copies printed not given.

Reviewer: Panichkin, I. A., Doctor of Technical Sciences, Professor; Ed.: Senichkin, G. V., Engineer; Ed. of Publishing House: Petrova, I. A., Tech. Ed.: Zudakin, I. M.; Managing Ed.: Sokolov, A. I.L. Engineer

PURPOSE: This book was written as a textbook for tekhnikums, but may also be useful to students in institutions of higher learning and to workers specializing in the field of rocket engineering.

COVERAGE: The basic textbook on liquid propellant rocket engines is divided into two parts. Part one is concerned with "Theory and Thermodynamic Calculation of Liquid Propellant Rocket Engines" where fundamentals of Thermodynamics and Thermo-chemical analysis of the propellant are extensively presented. Part two deals with the "Design of Liquid Propellant Rocket Engines." The authors describe fundamental theories of liquid propellant

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Liquid Propellant Rocket Engines (Cont.)

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rocket engines and the design of their basic components. They provide the mecessary data for the analyzing thrust and for determining the principal dimensions of various accessories and assemblies of liquid propellant rocket engines. Exsuples of the application of calculation methods are given. The book covers a considerable number of subjects, pertaining to rocket engine design and describes some equipment. A number of scientists who developed rocket propulsion in the USSR are mentioned. Recent developments in the study of complex phenomena occurring in liquid propellant rocket engines have made necessary the revision of some old concepts presented in the first edition of this book. As a result the new edition differs from the first in a number of chapters. Its extensive Table of Contents gives a detailed review of the book. There are 45 references, all of them Soviet (including 10 translations).

TABLE OF

CONTENTS: Preface to the Second Edition

Preface to the First Edition

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Card 2/24

ZORIN, V.: DOBROVOL'SKIY, N.

Suggestions prompted by life. Okhr.truda i sots.strakh. no.10:20-22 0 59. (MIRA 13:2)

1. Predsedatel' Novosibirskogo oblastnogo soveta profsoyuzov (for Zorin). 2. Zaveduyushchiy otdelom okhrany truda Novosibirskogo oblasyprofa (for Dobrovol'skiy).

(Novosibirsk Province--Industrial hygiene)

(Factories--Design and construction)

DOBROVOL'SKIY, N., Eng., and PLYSHEVSKIY, I.

Drilling rig AVB-3-100. MTS 12. No 9, 1952.

DOBROVOL'SKIY, N., polkovnik; VEKHOV, S., inzh.-podpolkovnik, kand. khimicheskikh

Radioactive contamination and the decontamination of water. Tekh. i vooruzh. no.4:47-50 Ap '64. (MIRA 17:9)

DOBROYOL'SKIY N.D. gornyy inshener.; ZAYTSEV, G.G., gornyy inshener.;
BYBIN, F.T., gornyy inshener.; SHILOV, P.G., gornyy inshener.

New alternative to the ore storage system for lode mining in unstable rock. Gor. shur. no.2:7-9 F '57. (MIRA 10:4) (MIRA 10:4)

DOBROVOLSKI, N. F., ASS, T. V. and BYLINKO, G. N.

"Microdetermination of chloride in plasma with diphenylamine as adsorption indicator," Biokhimiya 3, pp 751-8, 1938.

The method is accurate to about 2%. Proteins are removed by boiling with HCAs and MgSO₄; treatment with activated charcoal follows The indicator is freshly prepd. before use; 0.02 N AgNO3 is employed for titration.

H. Cohen

Chair of General Chemistry, 1st medical Inst. Khartow